

FIGURE 1

BEST AVAILABLE COPY

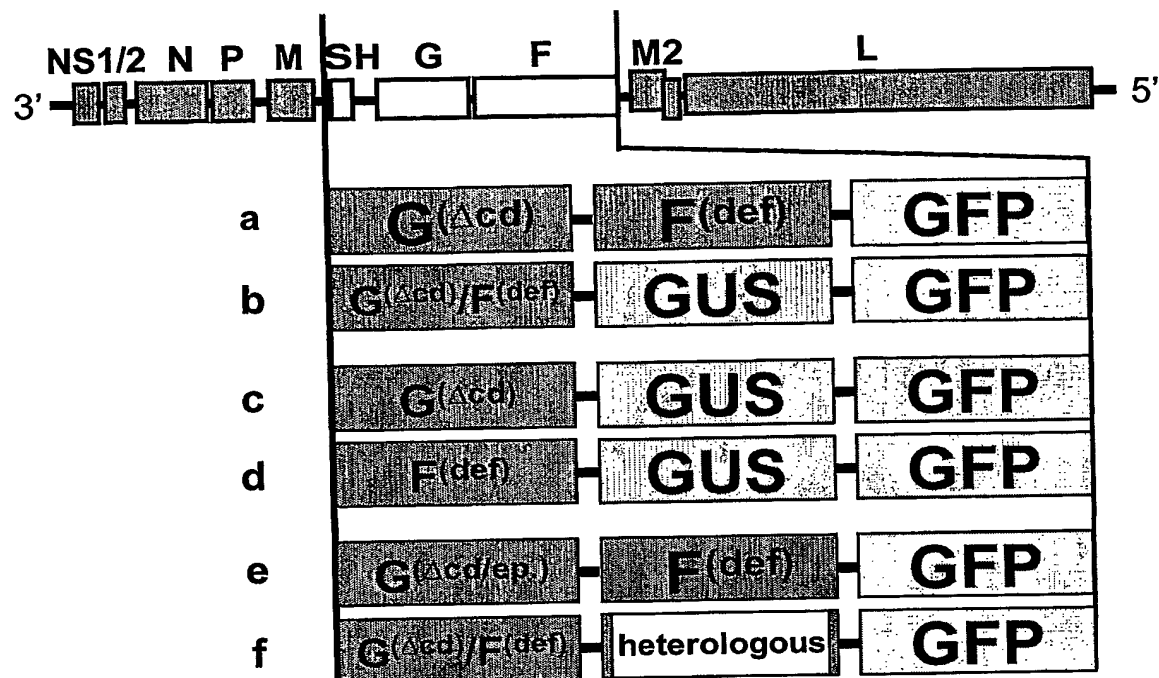


FIGURE 2

BEST AVAILABLE COPY

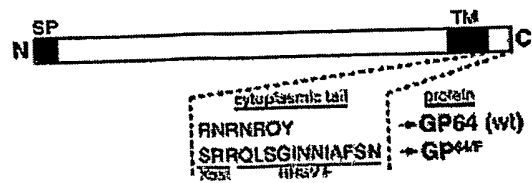


FIGURE 3A

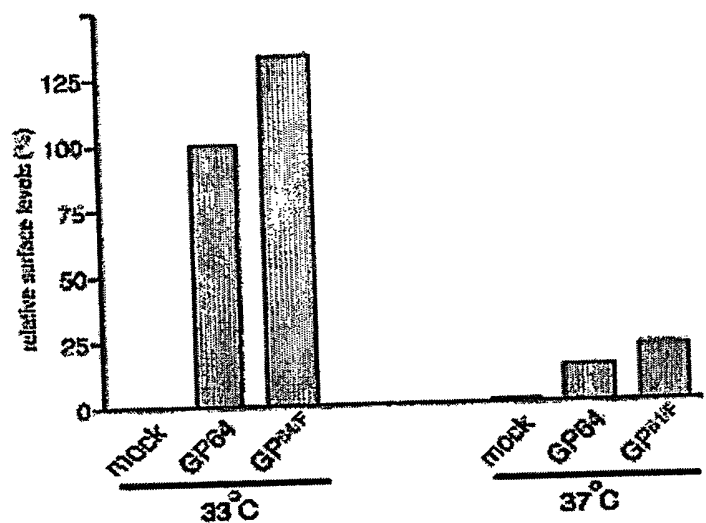


FIGURE 3B

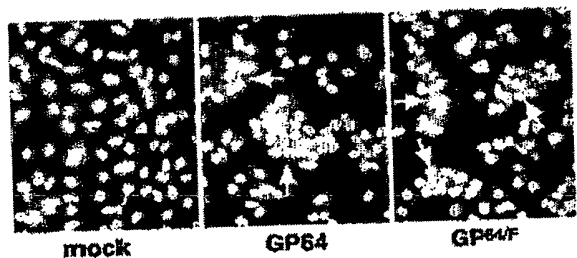


FIGURE 3C

pH	5.0	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
GP64	++	++	+/	-	-	-	-	-	-	-	-
GP64F	++	+	+/	-	-	-	-	-	-	-	-

FIGURE 3D

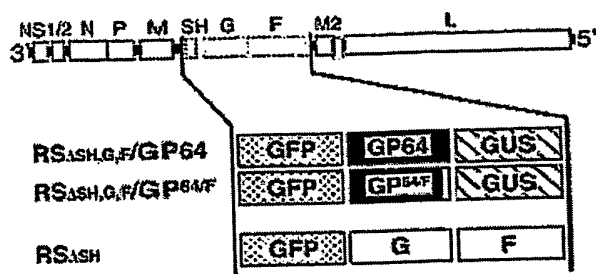


FIGURE 4A

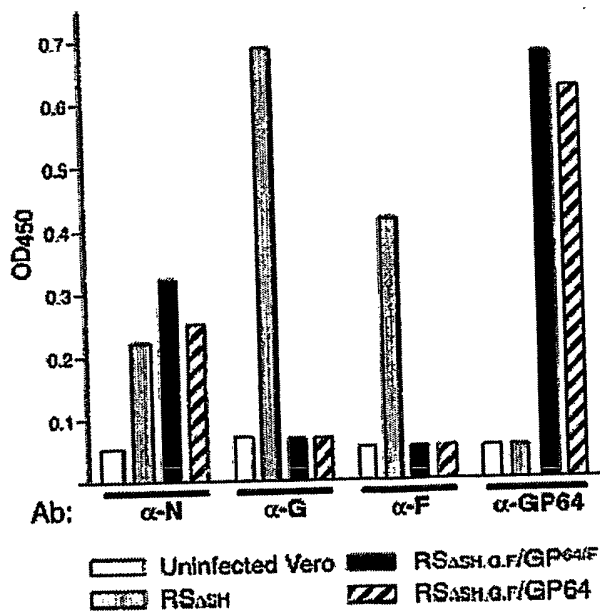


FIGURE 4B

BEST AVAILABLE COPY

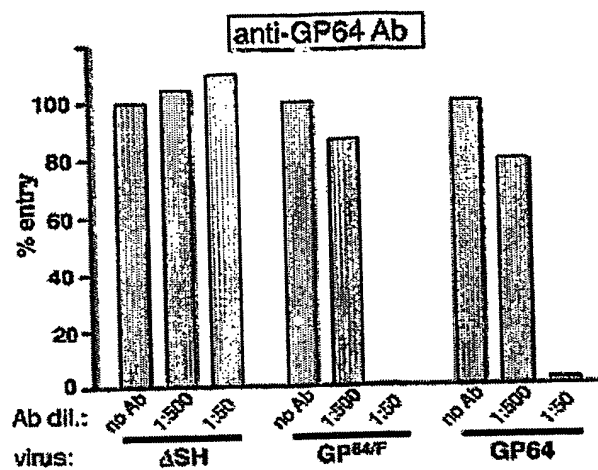


FIGURE 5A

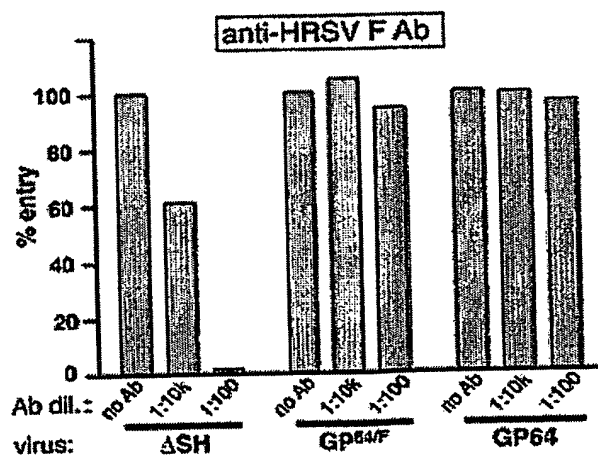


FIGURE 5B

BEST AVAILABLE COPY

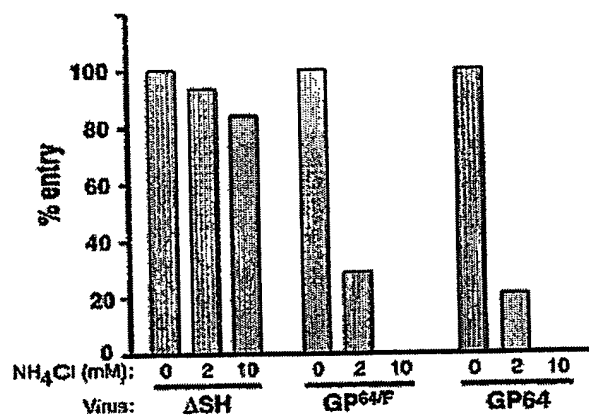


FIGURE 6A

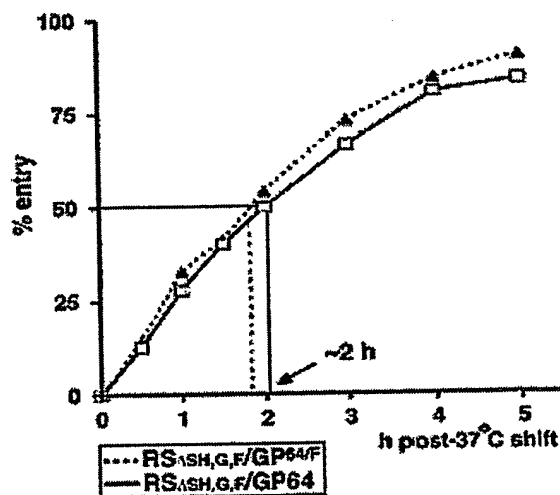


FIGURE 6B

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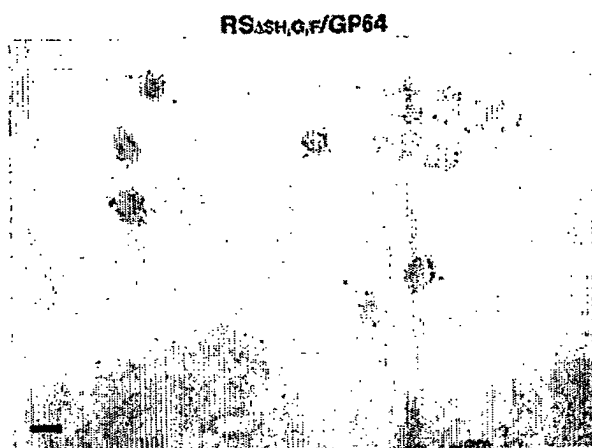


FIGURE 7A

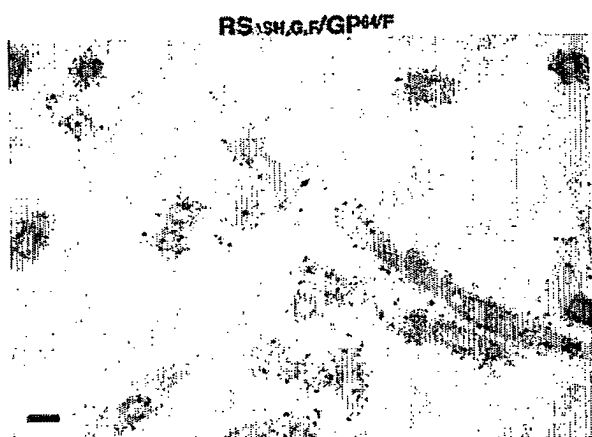


FIGURE 7B

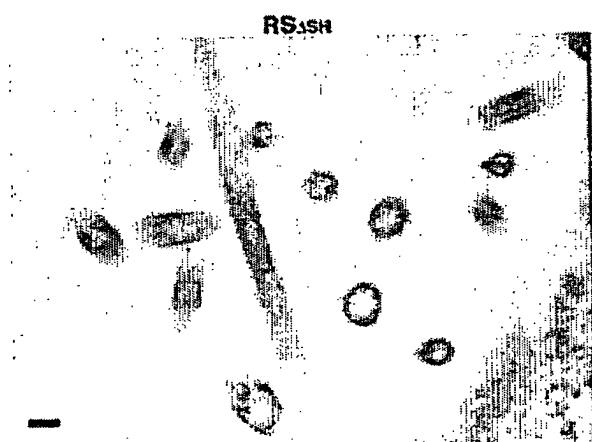


FIGURE 7C

BEST AVAILABLE COPY

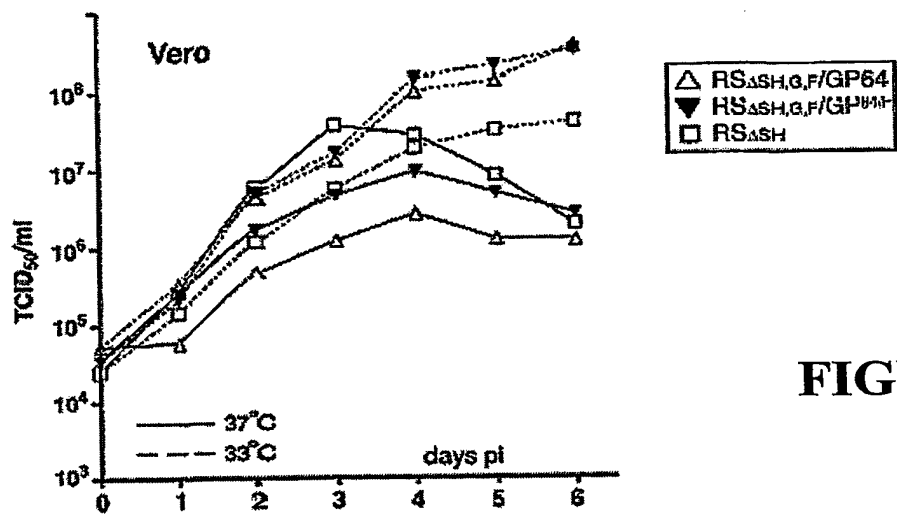


FIGURE 8A

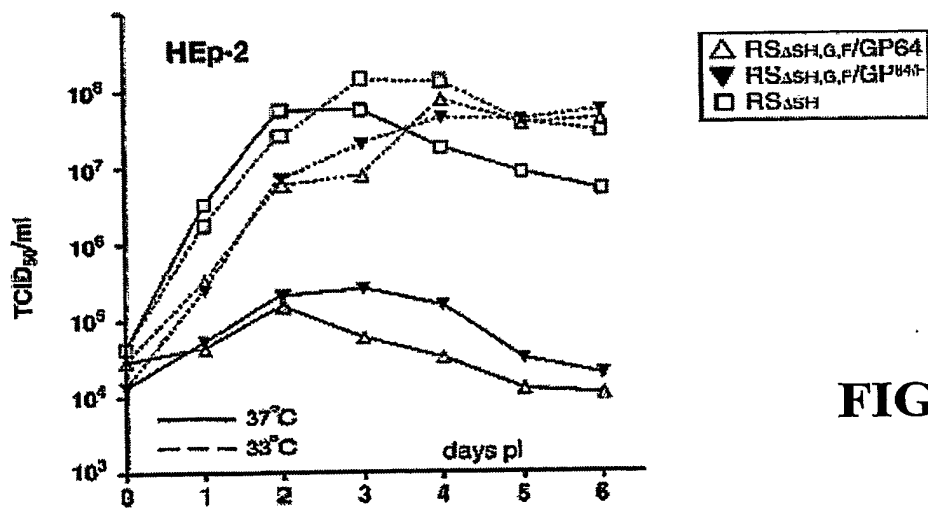
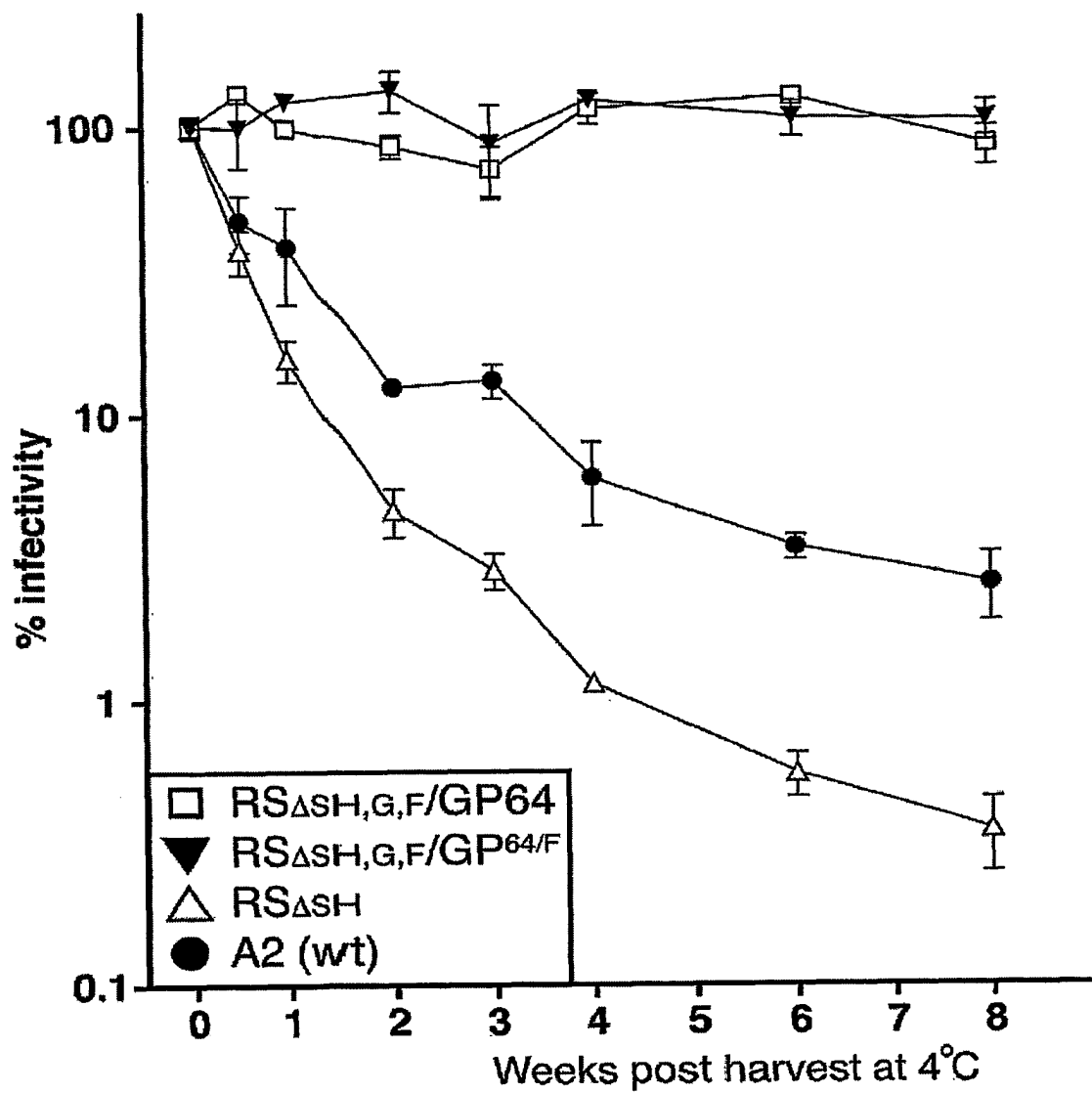
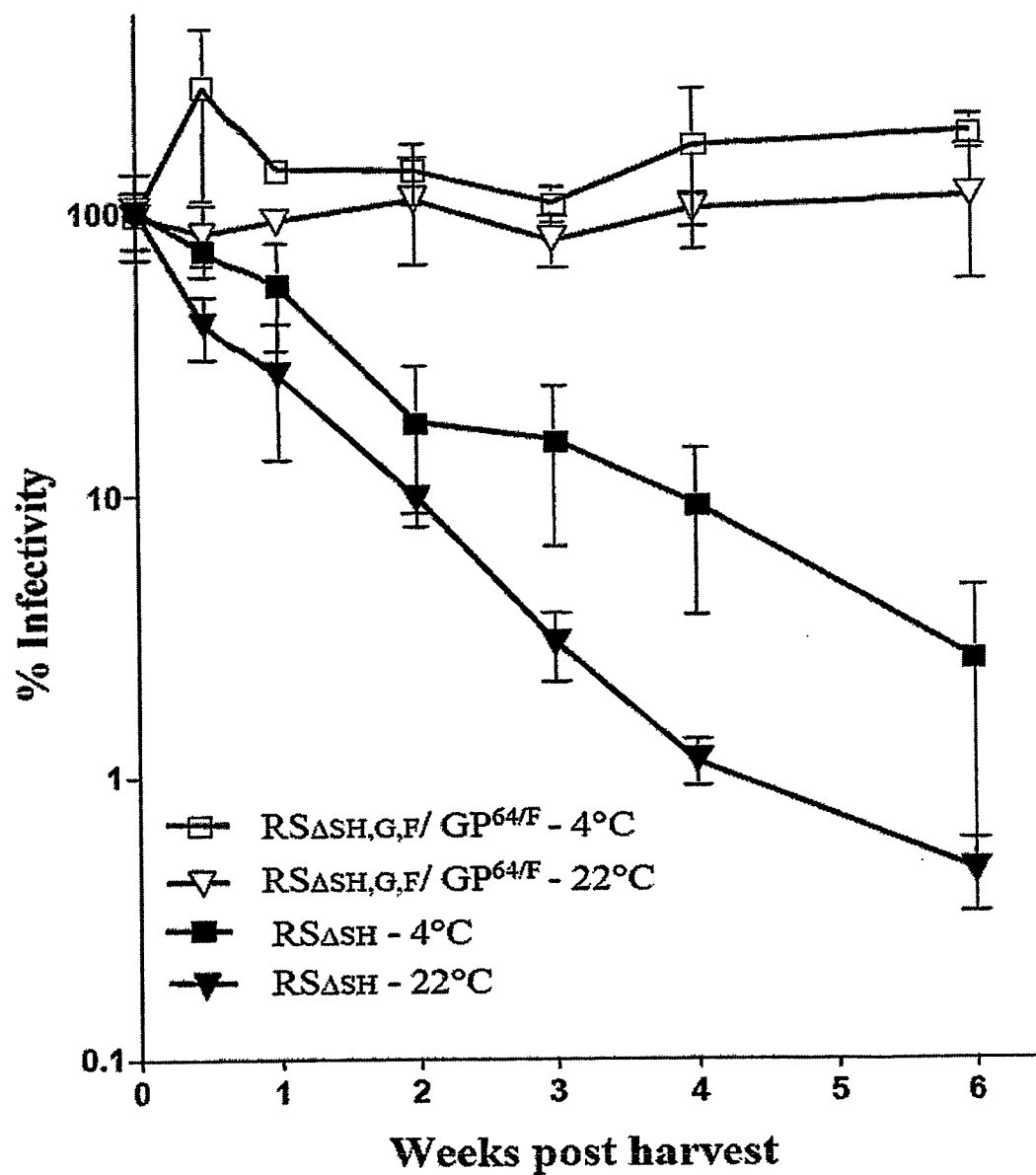


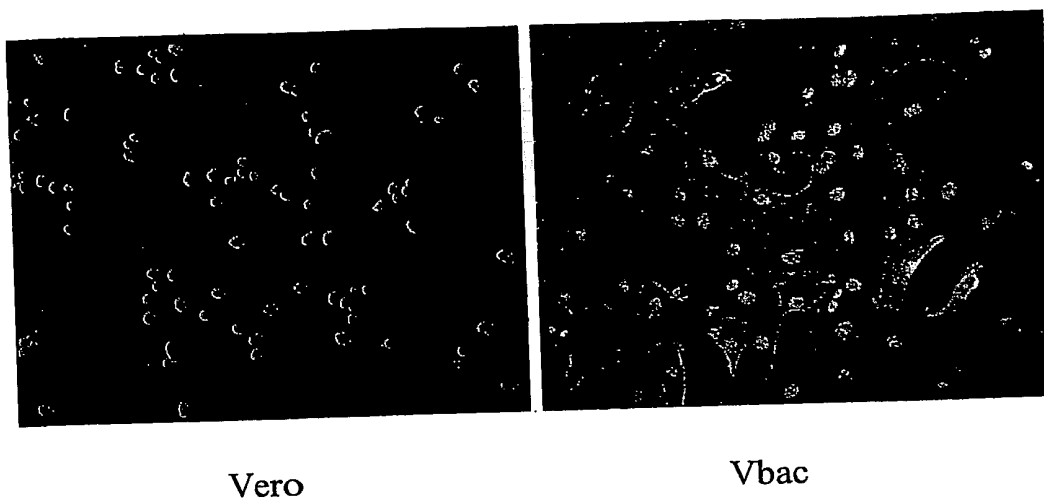
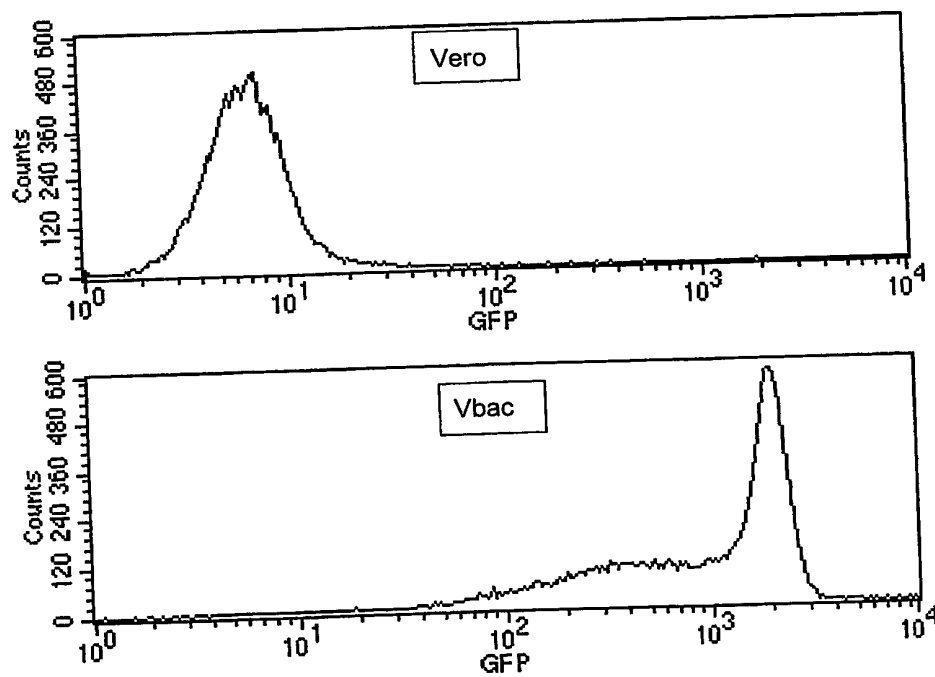
FIGURE 8B

	24 h pi		48 h pi	
	cell	supt	cell	supt
RS _{ΔSH,G,F/GP64}	99.6 %	0.4 %	98.4 %	1.6 %
RS _{ΔSH,G,F/GP64/F}	99.1 %	0.9 %	97.7 %	2.3 %
RS _{ΔSH}	99.7 %	0.3 %	98.2 %	1.8 %

FIGURE 8C

**FIGURE 9A**

**Figure 9B**

**FIGURE 10A****FIGURE 10B**

BEST AVAILABLE COPY

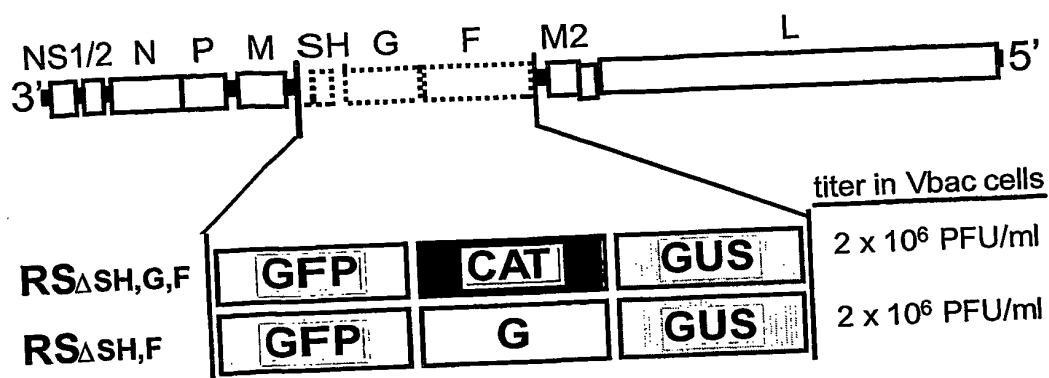


FIGURE 11A

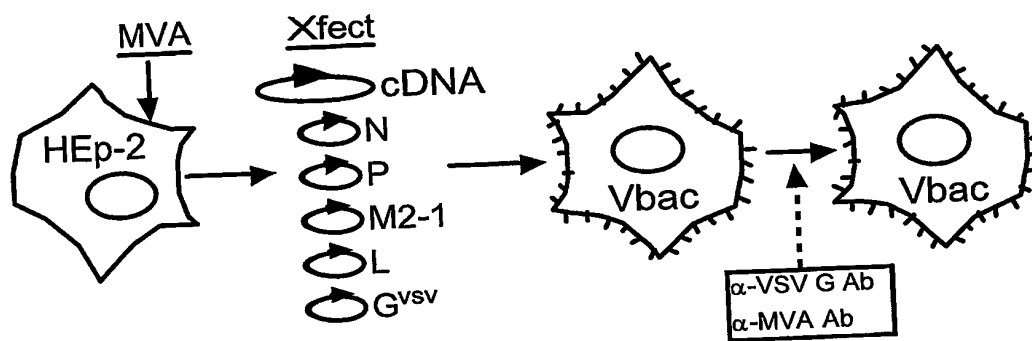
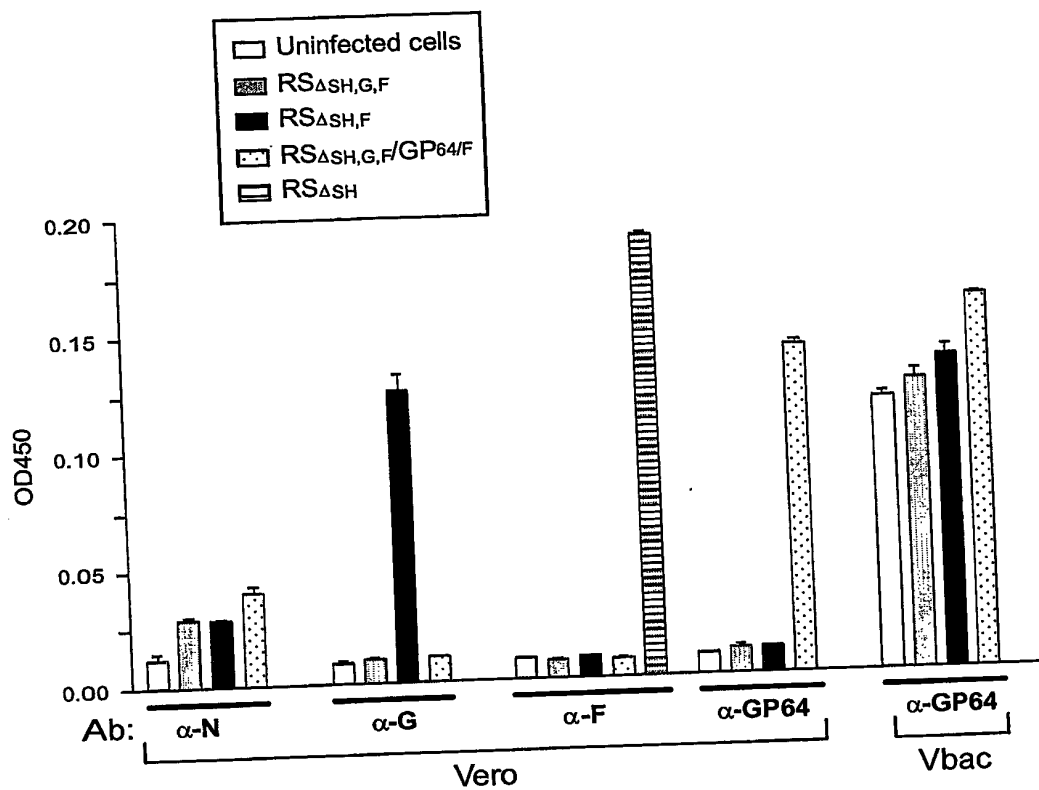


FIGURE 11B

**FIGURE 12**

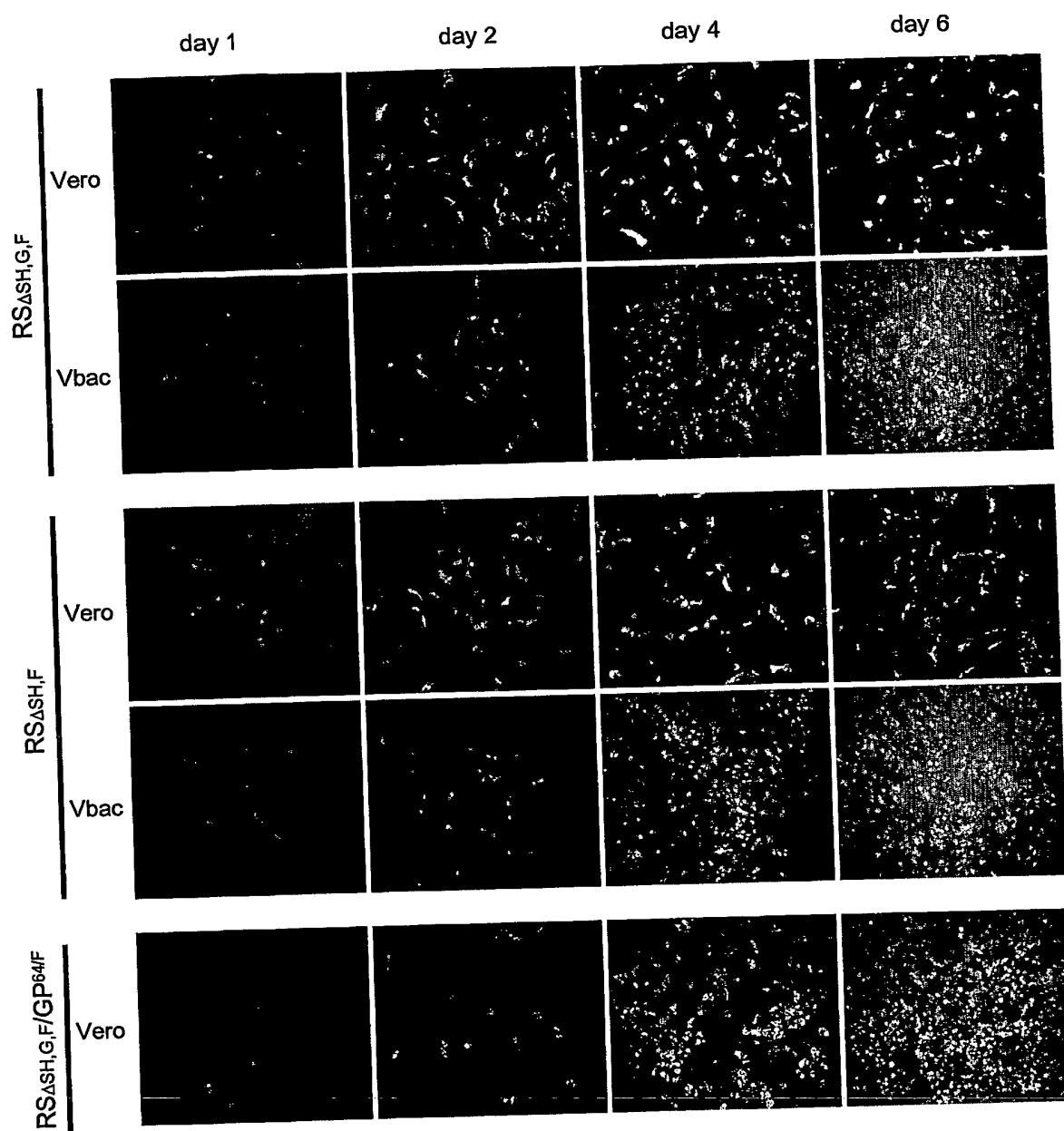


FIGURE 13

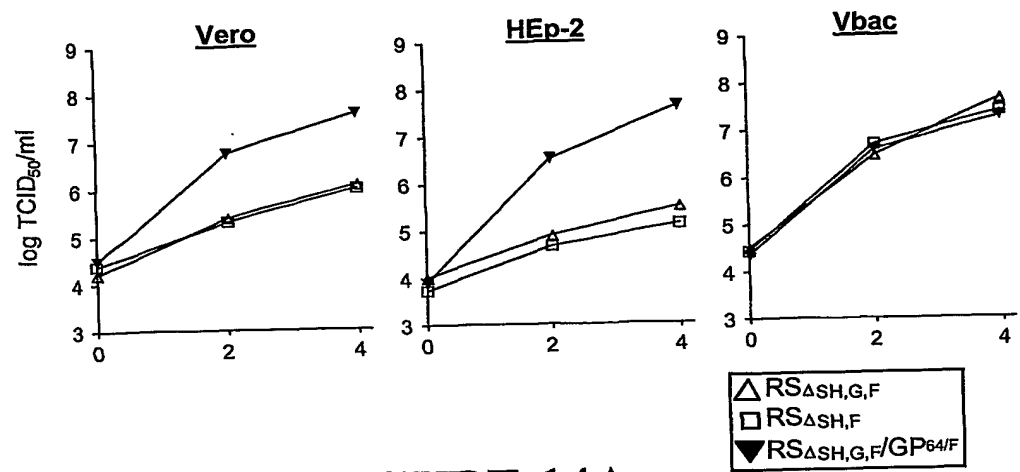


FIGURE 14A

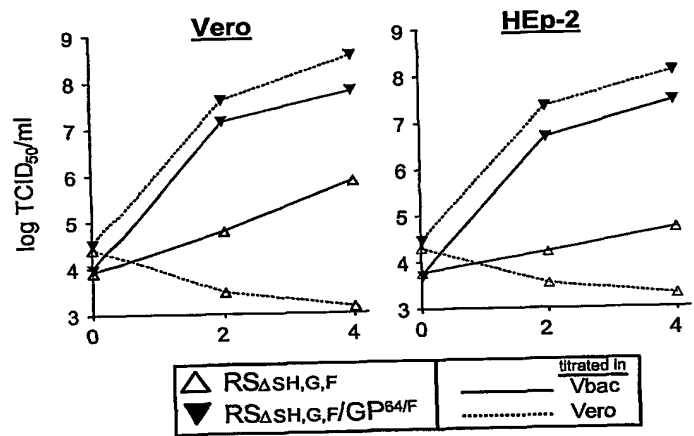
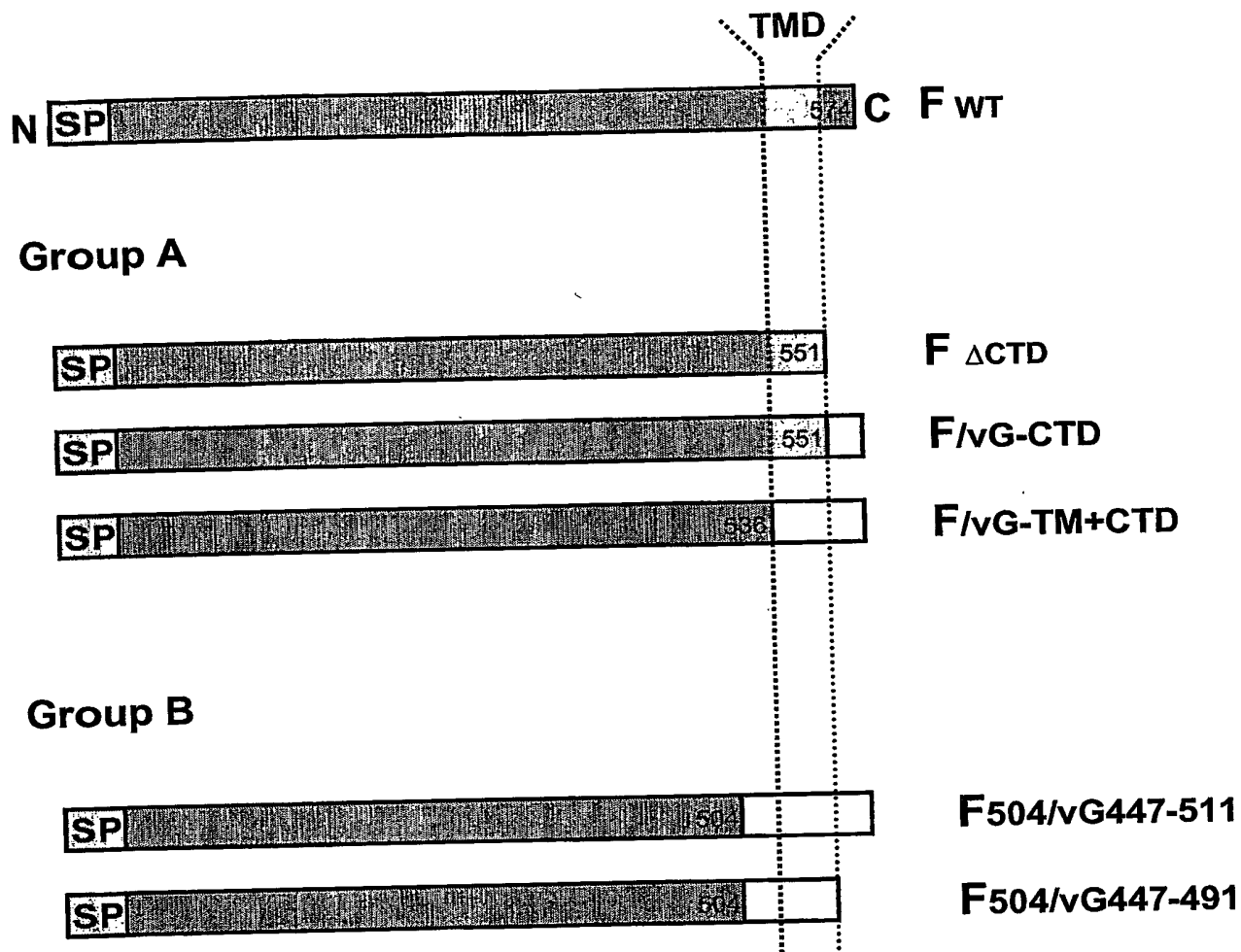


FIGURE 14B

	% entry into	Vero			HEp-2		
		0	2	4	0	2	4
RS Δ SH,G,F	Vbac	0.01	0.19	1.54	0.01	0.08	0.43
	Vero	0.03	0.00	0.01	0.03	0.00	0.01
RS Δ SH,G,F/GP ⁶⁴ /F	Vbac	0.00	10.73	56.64	0.01	7.37	32.08
	Vero	0.02	37.26	84.79	0.04	21.01	61.26

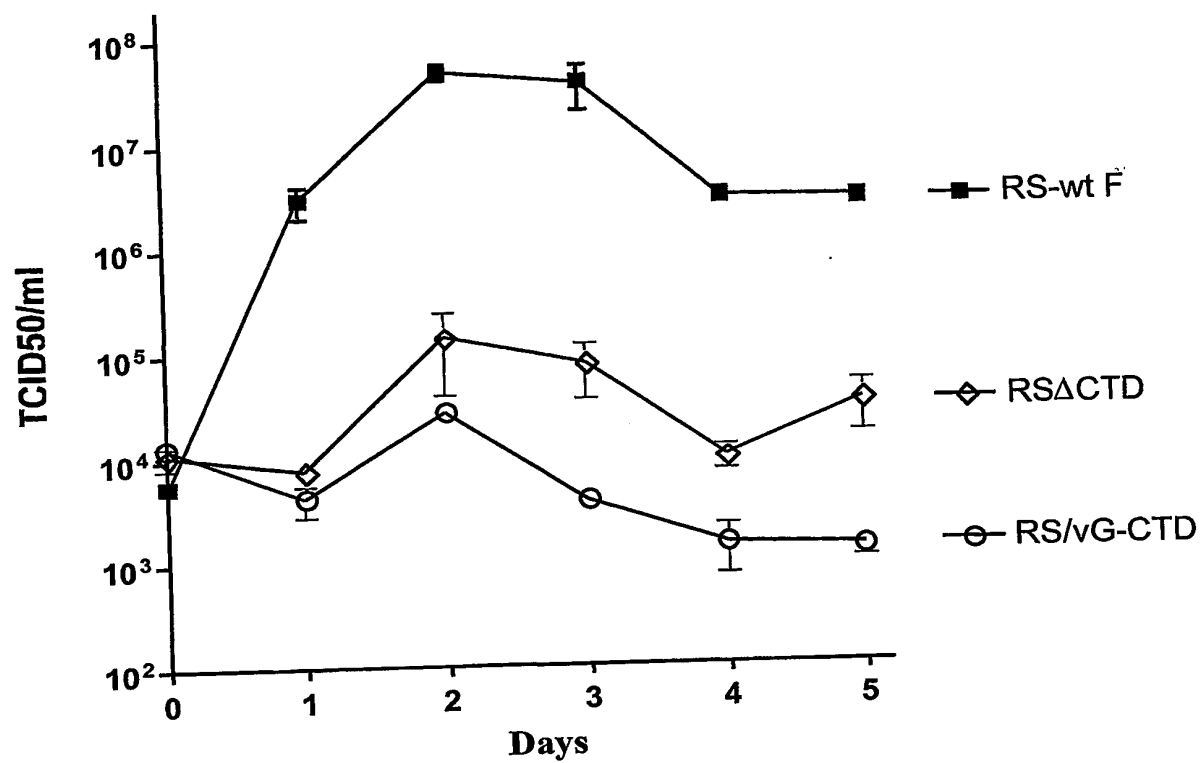
FIGURE 14C



SP = signal peptide

TMD =transmembrane domain

Figure 15

**Figure 16**

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